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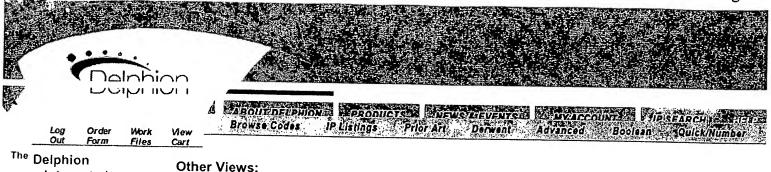
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Title:

JP10031997A2: BATTERY

Want to see a more descriptive title highlighting what's new about this invention?

Country:

JP Japan

Kind:

: A

Inventor(s):

TANIGUCHI MASAHIDE NAKANISHI MEGUMI HASHISAKA KAZUHIKO

Applicant/Assignee:

TORAY IND INC

News, Profiles, Stocks and More about this company

Issued/Filed Dates:

Feb. 3, 1998 / July 18, 1996

Application Number:

JP1996000189337

IPC Class:

H01M 2/34; H01M 10/40;

Interested in classification by use rather than just by description?

Priority Number(s):

July 18, 1996 JP1996000189337

Abstract:

Problem to be solved: To provide a highly safe battery with high capacity by making a material which absorbs heat by the contact with the outside air present in at least a part of the part making contact with a battery vessel.



Solution: In this battery, an electrode body 5 having a positive electrode lead 4 and a negative electrode lead 6 is housed in a battery can 3, and the opening part of the can 3 is sealed by a sealing body 1 through a sealant 2. As the structure of the sealing body 1, for example, a heat absorbing material tank 12 having fleon 113 sealed therein is provided on the lower surface of the layered body of a cap 11 having a hole 10, a PTC element 7, a pressure releasing plate 8 having a heat absorbing material opening part 13 and an insulating plate 9. When the battery is broken, the release part 13 slips out, and the fluorocarbon 113 is evaporated to absorb heat as soon as it is exposed to the outside air. Therefore, even if there should be a heating that the energy possessed by the battery in charged state is released to the outside by a short circuit, the rise of the battery temperature can be suppressed, and firing can be prevented.

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See a clear and precise summary of the whole patent, in understandable terms.

Family:

Show known family members

Other Abstract Info:

DERABS G98-165433 DERG98-165433

Foreign References:

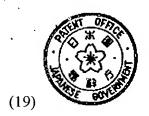
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(11) Publication number:

10031997 A

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PATENT ABSTRACTS OF JAPAN

(21) Application number: **08189337**

(51) Intl. Cl.: **H01M 2/34** H01M 10/40

(22) Application date: 18.07.96

(30) Priority:

(43) Date of application

publication:

03.02.98

(84) Designated contracting

states:

(71) Applicant: TORAY IND INC

(72) Inventor: TANIGUCHI MASAHIDE

NAKANISHI MEGUMI HASHISAKA KAZUHIKO

(74) Representative:

(54) BATTERY

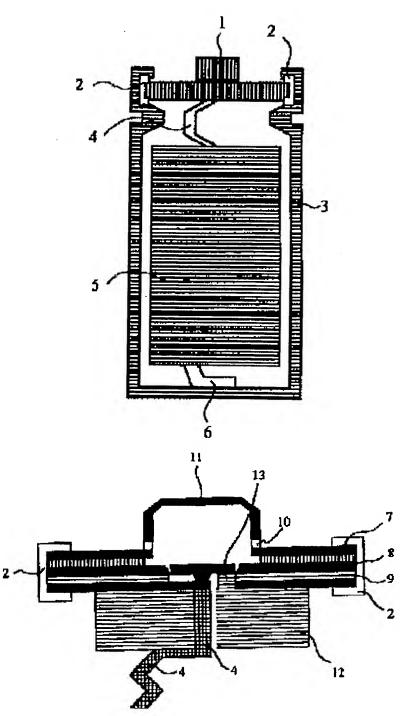
(57) Abstract:

PROBLEM TO BE SOLVED: To provide a highly safe battery with high capacity by making a material which absorbs heat by the contact with the outside air present in at least a part of the part making contact with a battery vessel.

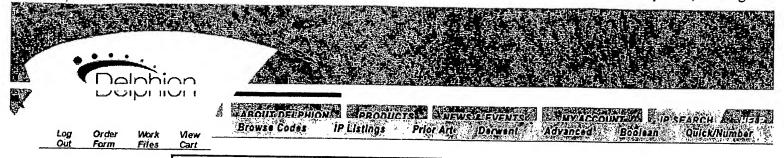
SOLUTION: In this battery, an electrode body 5 having a positive electrode lead 4 and a negative electrode lead 6 is housed in a battery can 3, and the opening part of the can 3 is sealed by a sealing body 1 through a sealant 2. As the structure of the sealing body 1, for example, a heat absorbing material tank 12 having fleon 113 sealed therein is provided on the lower surface of the layered body of a cap 11 having a hole 10, a PTC element 7, a pressure releasing plate 8 having a heat absorbing material opening part 13 and an insulating plate 9. When the battery is broken, the release part 13 slips out, and the fluorocarbon 113 is evaporated to absorb heat as soon as it is exposed to the outside air. Therefore, even if there should be a

heating that the energy possessed by the battery in charged state is released to the outside by a short circuit, the rise of the battery temperature can be suppressed, and firing can be prevented.

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Battery with non-aqueous electrolyte used in portable equipment such as video camera, portable telephone, nc Page 1 of 2



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Battery with non-aqueous electrolyte used in portable equipment such as video camera, portable telephone, notebook type PC - has heat absorption substance containing battery vessel, made to protrude towards open air

Assignee:

TORAY IND INC Standard company (TORA...)

Inventor(s):

Accession / Update:

1998-165433 / 199815

IPC Class:

H01M 2/34; H01M 10/40;

Derwent Classes:

X16;

Manual Codes:

X16-B01F1(Lithium-based), X16-F03(Terminals, internal connections,

vents, filler caps)

Derwent Abstract

(JP10031997A) The battery includes an electrode material provided in a battery vessel. A heat absorption substance which contacts the battery vessel, is made to protrude towards open air. Advantage - Increases battery capacity. Improves manufacturing of battery with safety.

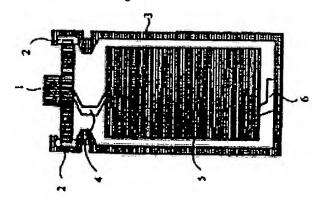


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Patent Issued DW Update Pages Language IPC Class JP10031997A * Feb. 03, 1998 199815 5 English H01M 2/34

Local appls.: JP1996000189337 ApplDate:1996-07-18 (96JP-0189337)

pattery with non-aqueous electrolyte used in portable equipment such as video camera, portable telephone, i... Page 2 of 2

Priority Number(s):

JP1996000189337 July 18, 1996 BATTERY

Title Terms:

BATTERY NON AQUEOUS ELECTROLYTIC PORTABLE EQUIPMENT VIDEO CAMERA PORTABLE TELEPHONE TYPE HEAT ABSORB SUBSTANCE CONTAIN BATTERY VESSEL MADE PROTRUDE OPEN AIR

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